

SEQUENCE LISTING

<110> BULLEID, NEIL J

<120> PROCOLLAGEN ASSEMBLY

<130> 39-189

<140> PCT/GB98/00468

MAY 7 2000

<141> 1998-03-02

<150> 9704305.3

<151> 1997-03-01

<160> 18

<170> PatentIn Ver. 2.0

<210> 1

<211> 23

<212> PFT

<213> Homo sapiens

<400> 1

Gly	Gly	Gln	Gly	Ser	Asp	Pro	Ala	Asp	Val	Ala	Ile	Gln	Leu	Thr	Phe
1				5					10					15	

Leu	Arg	Leu	Met	Ser	Thr	Glu
			20			

<210> 2

<211> 23

<212> PFT

<213> Homo sapiens

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Asn	Val	Glu	Gly	Val	Thr	Ser	Lys	Glu	Met	Ala	Thr	Gln	Leu	Ala	Phe
1				5					10					15	

Met	Arg	Leu	Leu	Ala	Asn	Tyr
						20

<210> 3

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3

Gly Asp Asp Asn Leu Ala Pro Asn Thr Ala Asn Val Gln Met Thr Phe
1 5 10 15

Leu Arg Leu Leu Ser Thr Glu
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<210> 4

<211> 23

<212> PRT

<213> Homo sapiens

<400> 4

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1 5 10 15

Leu Arg Leu Leu Ser Ser Arg
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<210> 5

<211> 22

<212> PRT

<213> Homo sapiens

<400> 5

Val Asp Ala Glu Gly Asn Pro Val Gly Val Val Gln Met Thr Phe Leu
1 5 10 15

Arg Leu Leu Ser Ala Ser
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<210> 6

<211> 22

<212> PRT

<213> Homo sapiens

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Gly Asp His Gln Ser Pro Asn Thr Ala Leu Thr Gln Met Thr Phe Leu
1 5 10 15

Arg Leu Leu Ser Lys Glu

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<210> 7

<211> 22

<212> PRT

<213> Homo sapiens

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Leu Asp Val Glu Gly Asn Ser Ile Asn Met Val Gln Met Thr Phe Leu
 1 5 10 15

Lys Leu Leu Thr Ala Ser
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<210> 8

<211> 22

<212> PRT

<213> Homo sapiens

<400> 8

Val Asp Ser Glu Gly Ser Pro Val Gly Val Val Gln Leu Thr Phe Leu
 1 5 10 15

Arg Leu Leu Ser Val Ser
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<210> 9

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<212> ENA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:RECOMBINANT
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agatgggtgcg actggacatc

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<212> DNA

<213> Artificial Sequence

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tgcgagggat ccgtcggtca cttgcactgg tt

32

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<212> DNA

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<400> 11

aatggagctc ctggacccat g

21

<210> 11

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:RECOMBINANT
PRIMER

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ctgctaggtc ccaaattggaa ggattcagct tt

32

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<211> 21

<212> PRT

<213> Homo sapiens

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<222> (13)..(18)
<223> Xaa is any naturally occurring amino acid, or no amino acid present

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Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Xaa Xaa Xaa Xaa
 5 10 15

Xaa Xaa Ser Ser Arg
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<212> PRT

<213> Homo sapiens

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<222> (13)..(19)
<223> Xaa is any naturally occurring amino acid, or no amino acid present

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Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Xaa Xaa Xaa Xaa
 1 5 10 15

Xaa Xaa Xaa Ser Ser Arg
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<210> 15

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<212> PRT

<213> Homo sapiens

<400> 15

Gln Leu Ala Phe Leu Arg Leu Leu Leu
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<212> PRT

<213> Homo sapiens

<400> 16

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Tyr Tyr Arg Ala Asp Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu
1 5 10 15
Val Asp Thr Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg
20 25 30
Ser Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu
35 40 45
Lys Met Cys His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro
50 55 60
Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu
65 70 75 80
Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys
85 90 95
Asn Trp Tyr Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe
100 105 110
Gly Glu Ser Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gly Gln Gly
115 120 125
Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met
130 135 140
Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val
145 150 155 160
Ala Tyr Met Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu Leu
165 170 175
Lys Gly Ser Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe
180 185 190
Thr Tyr Ser Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp
195 200 205
Gly Lys Thr Val Ile Glu Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro
210 215 220
Ile Ile Asp Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe
225 230 235 240
Gly Phe Asp Val Gly Pro Val Cys Phe Leu
245 250

<210> 17

<211> 251

<212> PRT

<213> Homo sapiens

<400> 17

Phe Tyr Arg Ala Asp Gln Pro Arg Ser Ala Pro Ser Leu Arg Pro Lys
1 5 10 15

Asp Tyr Glu Val Asp Ala Thr Leu Lys Ser Leu Asn Asn Gln Ile Glu
20 25 30

Thr Leu Leu Thr Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys
35 40 45

Arg Asp Leu Arg Leu Ser His Pro Glu Trp Ser Ser Gly Tyr Tyr Trp
50 55 60

Ile Asp Pro Asn Gln Gly Cys Thr Met Glu Ala Ile Lys Val Tyr Cys
65 70 75 80

Asp Phe Pro Thr Gly Glu Thr Cys Ile Arg Ala Gln Pro Glu Asn Ile
85 90 95

Pro Ala Lys Asn Trp Tyr Arg Ser Ser Lys Asp Lys Lys His Val Trp
100 105 110

Leu Gly Glu Thr Ile Asn Ala Gly Ser Gln Phe Glu Tyr Asn Val Glu
115 120 125

Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe Met Arg Leu
130 135 140

Leu Ala Asn Tyr Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser
145 150 155 160

Ile Ala Tyr Met Asp Glu Glu Thr Gly Asn Leu Lys Lys Ala Val Ile
165 170 175

Leu Gln Gly Ser Asn Asp Val Glu Leu Val Ala Glu Gly Asn Ser Arg
180 185 190

Phe Thr Tyr Thr Val Leu Val Asp Gly Cys Ser Lys Lys Thr Asn Glu
195 200 205

Trp Gly Lys Thr Ile Ile Glu Tyr Lys Thr Asn Lys Pro Ser Arg Leu
210 215 220

Pro Phe Leu Asp Ile Ala Pro Leu Asp Ile Gly Gly Ala Asp His Glu
225 230 235 240

Phe Phe Val Asp Ile Gly Pro Val Cys Phe Lys
245 250

<210> 18

<211> 248

<212> PRT

<213> Homo sapiens

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Tyr 1	Tyr	Gly	Asp	Glu 5	Pro	Met	Asp	Phe	Lys 10	Ile	Asn	Thr	Asp	Glu 15	Ile
Met	Thr	Ser	Leu 20	Lys	Ser	Val	Asn	Gly 25	Gln	Ile	Glu	Ser	Leu 30	Ile	Ser
Pro	Asp	Gly 35	Ser	Arg	Lys	Asn	Pro 40	Ala	Arg	Asn	Cys	Arg 45	Asp	Leu	Lys
Phe	Cys	His	Pro	Glu	Leu	Lys 55	Ser	Gly	Glu	Tyr	Trp 60	Val	Asp	Pro	Asn
Gln 65	Gly	Cys	Lys	Leu	Asp 70	Ala	Ile	Lys	Val	Phe	Cys	Asn	Met	Glu	Thr 80
Gly	Glu	Thr	Cys	Ile 85	Ser	Ala	Asn	Pro	Leu 90	Asn	Val	Pro	Arg	Lys 95	His
Trp	Trp	Thr 100	Asp	Ser	Ser	Ala	Glu	Lys 105	Lys	His	Val	Trp	Phe 110	Gly	Glu
Ser	Met	Asp 115	Gly	Gly	Phe	Gln	Phe	Ser	Tyr	Gly	Asn	Pro 125	Glu	Leu	Pro
Glu 130	Asp	Val	Leu	Asp	Val	Gln 135	Leu	Ala	Phe	Leu	Arg 140	Leu	Leu	Ser	Ser
Arg 145	Ala	Ser	Gln	Asn 150	Ile	Thr	Tyr	His	Cys	Lys 155	Asn	Ser	Ile	Ala	Tyr 160
Met	Asp	Gln	Ala	Ser 165	Gly	Asn	Val	Lys	Lys	Ala	Leu	Lys	Leu	Met	Gly
Ser	Asn	Glu 180	Gly	Glu	Phe	Lys	Ala	Glu 185	Gly	Asn	Ser	Lys	Phe 190	Thr	Tyr
Thr	Val 195	Leu	Glu	Asp	Gly	Cys	Thr 200	Lys	His	Thr	Gly	Glu 205	Trp	Ser	Lys
Thr 210	Val	Phe	Glu	Tyr	Arg	Thr 215	Arg	Lys	Ala	Val	Arg 220	Leu	Pro	Ile	Val
Asp 225	Ile	Ala	Pro	Tyr	Asp 230	Ile	Gly	Gly	Pro	Asp 235	Gln	Glu	Phe	Gly	Val 240
Asp	Val	Gly	Pro	Val 245	Cys	Phe	Leu								